

## IN THE CLAIMS

### Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

### Listing of Claims:

1. (Currently Amended) A high toughness die-cast product, comprising an Al-Mg casting alloy ~~having~~ consisting essentially of  $3.5 \text{ wt } \% \leq \text{Mg} \leq 4.5 \text{ wt } \%$ ,  $0.8 \text{ wt } \% \leq \text{Mn} \leq 1.5 \text{ wt } \%$ ,  $\text{Si} < 0.5 \text{ wt } \%$ ,  $\text{Fe} < 0.5 \text{ wt } \%$ , a sum  $(\text{Ti} + \text{Zr})$  of the amounts of Ti and Zr added of equal to or greater than  $[[0.5]]$  0.3 wt %, and a ratio  $(\text{Ti}/\text{Zr})$  of the amounts of Ti and Zr added of at least 0.3 but not more than 2, with the balance being Al.
2. (Previously Presented) The high toughness die-cast product according to claim 1, wherein a pouring temperature T is  $720^\circ\text{C} \leq T \leq 730^\circ\text{C}$ .
3. (Previously Presented) The high toughness die-cast product according to claim 1, wherein it is thin such that it has a minimum thickness  $t_1$  of  $1.2 \text{ mm} \leq t_1 \leq 3 \text{ mm}$ , and it is large such that a maximum flow distance d of a melt within a die cavity is 200 mm or greater.
4. (Canceled)
5. (Previously Presented) The high toughness die-cast product according to claim 1, comprising:
  - a first chill layer;
  - a second chill layer disposed on opposite side of the first chill layer;
  - a minimum thickness  $t_1$  of  $1.2 \text{ mm} \leq t_1 \leq 3 \text{ mm}$ ;
  - wherein a proportion P of the sum of thickness of the first chill layer  $t_3$  and thickness of the second chill layer  $t_4$  relative to the minimum thickness  $t_1$  is at 18% or greater.

6. (Currently Amended) A die-cast product, comprising an Al-Mg casting alloy ~~having~~ consisting essentially of  $3.5 \text{ wt } \% \leq \text{Mg} \leq 4.5 \text{ wt } \%$ ,  $0.8 \text{ wt } \% \leq \text{Mn} \leq 1.5 \text{ wt } \%$ ,  $\text{Si} < 0.5 \text{ wt } \%$ ,  $\text{Fe} < 0.5 \text{ wt } \%$ ,  $\text{Ti} > 0.2 \text{ wt } \%$ , a sum  $(\text{Ti} + \text{Zr})$  of the amounts of Ti and Zr added of equal to or greater than  $0.3 \text{ wt } \%$ , and a ratio  $(\text{Ti}/\text{Zr})$  of the amounts of Ti and Zr added of at least 0.3 but not more than 2, with the balance being Al.

7. (Previously Presented) The die-cast product according to claim 6, comprising:  
a first chill layer;  
a second chill layer disposed on opposite side of the first chill layer;  
a minimum thickness  $t_1$  of  $1.2 \text{ mm} \leq t_1 \leq 3 \text{ mm}$ ;  
wherein a proportion P of the sum of thickness of the first chill layer  $t_3$  and thickness of the second chill layer  $t_4$  relative to the minimum thickness  $t_1$  is at 18% or greater.

8. (Currently Amended) A die-cast product, comprising an Al-Mg casting alloy ~~having~~ consisting essentially of  $3.5 \text{ wt } \% \leq \text{Mg} \leq 4.5 \text{ wt } \%$ ,  $0.8 \text{ wt } \% \leq \text{Mn} \leq 1.5 \text{ wt } \%$ ,  $\text{Si} < 0.5 \text{ wt } \%$ ,  $\text{Fe} < 0.5 \text{ wt } \%$ ,  $\text{Zr} > 0.3 \text{ wt } \%$ , a sum  $(\text{Ti} + \text{Zr})$  of the amounts of Ti and Zr added of greater than  $0.3 \text{ wt } \%$ , and a ratio  $(\text{Ti}/\text{Zr})$  of the amounts of Ti and Zr added of at least 0.3 but not more than 2, with the balance being Al.

9. (Previously Presented) The die-cast product according to claim 8, comprising:  
a first chill layer;  
a second chill layer disposed on opposite side of the first chill layer;  
a minimum thickness  $t_1$  of  $1.2 \text{ mm} \leq t_1 \leq 3 \text{ mm}$ ;  
wherein a proportion P of the sum of thickness of the first chill layer  $t_3$  and thickness of the second chill layer  $t_4$  relative to the minimum thickness  $t_1$  is at 18% or greater.

10. (New) A high toughness die-cast product, comprising:  
an Al-Mg casting alloy, consisting of  
 $3.5 \text{ wt } \% \leq \text{Mg} \leq 4.5 \text{ wt } \%$ ,  
 $0.8 \text{ wt } \% \leq \text{Mn} \leq 1.5 \text{ wt } \%$ ,  
 $\text{Si} < 0.5 \text{ wt } \%$ ,

$\text{Fe} < 0.5 \text{ wt } \%$ ,

wherein a sum  $(\text{Ti} + \text{Zr})$  of the amounts of Ti and Zr added of equal to or greater than 0.3 wt %, and a ratio  $(\text{Ti}/\text{Zr})$  of the amounts of Ti and Zr added of at least 0.3 but not more than 2, and

balance being Al and unavoidable impurities.

11. (New) A die-cast product, comprising:

an Al-Mg casting alloy consisting of

$3.5 \text{ wt } \% \leq \text{Mg} \leq 4.5 \text{ wt } \%$ ,

$0.8 \text{ wt } \% \leq \text{Mn} \leq 1.5 \text{ wt } \%$ ,

$\text{Si} < 0.5 \text{ wt } \%$ ,

$\text{Fe} < 0.5 \text{ wt } \%$ ,

$\text{Ti} > 0.2 \text{ wt } \%$ ,

wherein a sum  $(\text{Ti} + \text{Zr})$  of the amounts of Ti and Zr added of equal to or greater than 0.3 wt %, and a ratio  $(\text{Ti}/\text{Zr})$  of the amounts of Ti and Zr added of at least 0.3 but not more than 2, and

balance being Al and unavoidable impurities.

12. (New) A die-cast product, comprising:

an Al-Mg casting alloy consisting of

$3.5 \text{ wt } \% \leq \text{Mg} \leq 4.5 \text{ wt } \%$ ,

$0.8 \text{ wt } \% \leq \text{Mn} \leq 1.5 \text{ wt } \%$ ,

$\text{Si} < 0.5 \text{ wt } \%$ ,

$\text{Fe} < 0.5 \text{ wt } \%$ ,

$\text{Zr} > 0.3 \text{ wt } \%$ ,

wherein a sum  $(\text{Ti} + \text{Zr})$  of the amounts of Ti and Zr added of greater than 0.3 wt %, and a ratio  $(\text{Ti}/\text{Zr})$  of the amounts of Ti and Zr added of at least 0.3 but not more than 2, and

balance being Al and unavoidable impurities.